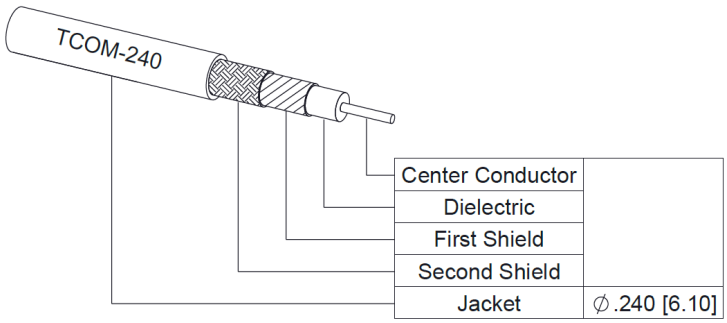
RA SMA Male to RA SMA Male Cable
TCOM-240 Coax, 180 Degree Clocking



FMCA16994/SP

Configuration

- Connector 1: SMA Male Right Angle
- Connector 2: SMA Male Right Angle
- Cable Type: TCOM-240
- Coax Flex Type: Flexible



Features

- Max Frequency 10 GHz
- Shielding Effectivity > 100 dB
- 84% Phase Velocity
- Double Shielded
- PE Jacket

Applications

- General Purpose
- Laboratory Use

Description

The RA SMA male to RA SMA male cable using TCOM-240 coax, part number FMCA16994/SP, from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA cable assembly has a male to male gender configuration with 50 ohm flexible TCOM-240 coax. Fairview Microwave's flexible RF cable assemblies are ideal for applications where tight bends and continual flexure are required. The FMCA16994/SP SMA male to SMA male cable assembly operates to 10 GHz. The right angle SMA interfaces on the TCOM-240 cable allow for easier connections in tight spaces. The double shielding of this Fairview cable assembly provides excellent shielding effectiveness of better than 100 dB.

Custom versions of most RF cable assemblies can be built and shipped same day. Custom cable assembly lengths can be obtained by specifying the desired length on the web site at time of order or by contacting a sales representative. Other RF cable assembly value added services including connector orientation or clocking, heat shrink booting and labeling are also available. RF testing can also be performed to document the electrical performance of your cable assembly.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
VSWR			1.4:1	
Velocity of Propagation		84		%
RF Shielding	100			dB
Group Delay		1.21 [3.97]		ns/ft [ns/m]
Capacitance		24.2 [79.4]		pF/ft [pF/m]
Inductance		0.06 [0.2]		uH/ft [uH/m]
DC Resistance Inner Conductor		3.2 [10.5]		Ohms/1000ft [Ohms/Km]
DC Resistance Outer Conductor		2.06 [6.76]		Ohms/1000ft [Ohms/Km]

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Jacket Spark			5,000	Vrms

Specifications by Frequency

Part Number	Length	Description	F1	F2	F3	F4	F5	Units	Weight (lbs)
		Frequency	500	1000	2500	5000	10000	MHz	
FMCA16994/SP	Custom Lengths Available	Insertion Loss (Typ.)	0.052	0.075	0.123	0.176	0.262	dB/ft	
			0.18	0.25	0.41	0.58	0.86	dB/m	
FMCA16994/SP-6	6 inch	Insertion Loss (Typ.)	0.33	0.34	0.37	0.39	0.44	dB	0.061
FMCA16994/SP-9	9 inch	Insertion Loss (Typ.)	0.34	0.36	0.4	0.44	0.5	dB	0.0685
FMCA16994/SP-12	12 inch	Insertion Loss (Typ.)	0.36	0.38	0.43	0.48	0.57	dB	0.076
FMCA16994/SP-18	18 inch	Insertion Loss (Typ.)	0.38	0.42	0.49	0.57	0.7	dB	0.091
FMCA16994/SP-24	24 inch	Insertion Loss (Typ.)	0.41	0.45	0.55	0.66	0.83	dB	0.106

The insertion loss data for the base model does not include loss due to the connectors. Each length includes insertion loss due to the connectors.

Loss due to Connector 1:	0.15	dB
Loss due to Connector 2:	0.15	dB
Base Weight:	0.076	pounds
Additional Weight per Inch:	0.0025	pounds

Mechanical Specifications

Cable Assembly

Width/Diameter	0.715 in [18.16 mm]
Weight	0.076 lbs [34.47 g]

Cable

Cable Type	TCOM-240
Impedance	50 Ohms
Inner Conductor Type	Solid
Inner Conductor Material and Plating	Copper
Dielectric Type	PE (F)
Number of Shields	2
Shield Layer 1	Silver Plated Copper Braid
Shield Layer 2	Tinned Copper Braid
Jacket Material	PE, Black
Jacket Diameter	0.24 in [6.1 mm]
One Time Minimum Bend Radius	0.75 in [19.05 mm]
Repeated Minimum Bend Radius	2.5 in [63.5 mm]
Bending Moment	0.25 lbs-ft [0.34 N-m]
Flat Plate Crush	20 lbs/in [0.36 Kg/mm]
Tensile Strength	80 lbs [36.29 Kg]

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male Right Angle	SMA Male Right Angle
Impedance	50 Ohms	50 Ohms
Configuration	Right Angle	Right Angle
Contact Material and Plating	Brass, Gold	Brass, Gold
Contact Plating Specification	50 µin minimum	50 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Gold	Brass, Gold
Body Plating Specification	3 µin minimum	3 µin minimum
Coupling Nut Material and Plating	Brass, Gold	Brass, Gold
Coupling Nut Plating Specification	3 µin minimum	3 µin minimum
Hex Size	5/16 inch	5/16 inch
Torque	3 in-lbs 0.34 Nm	3 in-lbs 0.34 Nm

Environmental Specifications

Operating Range Temperature	-40 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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FMCA16994/SP

Typical Performance Data

How to Order

Part Number Configuration: **FMCA16994/SP - xx uu**

- uu — Unit of Measure:
  - cm = Centimeters
  - <blank> = Inches
- xx — Length
- FMCA16994/SP — Base Number

Example: FMCA16994/SP-12 = 12 inches long cable
FMCA16994/SP-100cm = 100 cm long cable

RA SMA Male to RA SMA Male Cable TCOM-240 Coax, 180 Degree Clocking from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: RA SMA Male to RA SMA Male Cable TCOM-240 Coax, 180 Degree Clocking FMCA16994/SP

URL: https://www.fairviewmicrowave.com/ra-sma-male-to-ra-sma-male-cable-tcom-240-coax-180-degree-clocking-fmca16994-sp-p.aspx

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FMCA16994/SP CAD Drawing

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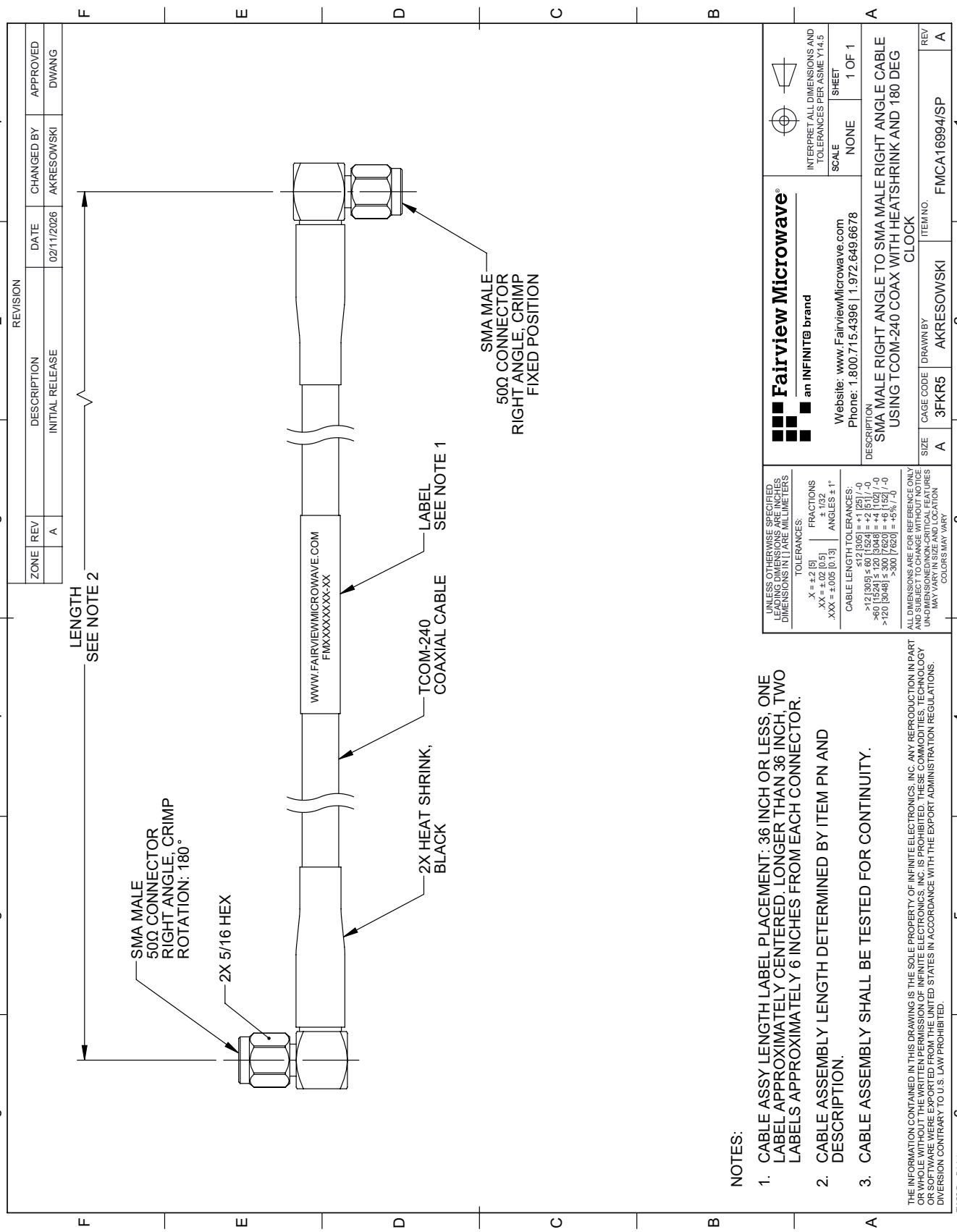

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